## Exponential Review © 2014 Kuta Software LLC. All rights reserved.

Date Period

Solve each equation. Give BOTH the EXACT answer and the approximate answer rounded to three decimal places.

1) 
$$6 \cdot 9^{x-4} = 6$$

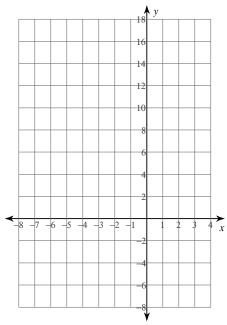
3) 
$$-5 \cdot 10^{-3v-2} - 5 = -55$$

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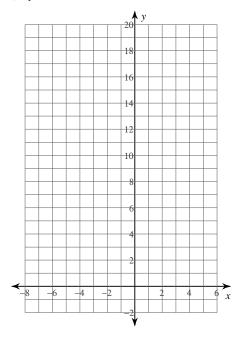
Sketch the graph of each function.

$$x + 2$$

5) 
$$y = 2 \cdot \left(\frac{1}{2}\right)^{x+2} - 1$$



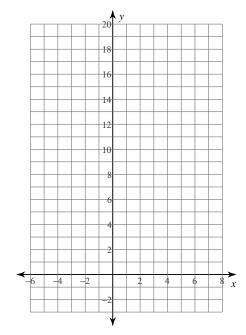
7) 
$$y = 4 \cdot 2^{x+1} + 2$$



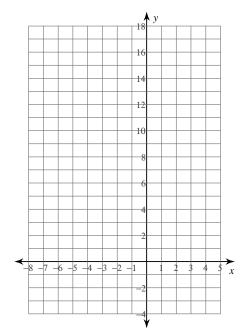
2) 
$$9 \cdot 7^{-5v} = 42.6$$

4) 
$$9 \cdot 11^{6a+1} + 4 = 67$$

6) 
$$y = \frac{1}{3} \cdot \left(\frac{1}{4}\right)^{x-1} + 2$$



8) 
$$y = \frac{1}{2} \cdot 5^{x+2} - 2$$



## Answers to Exponential Review

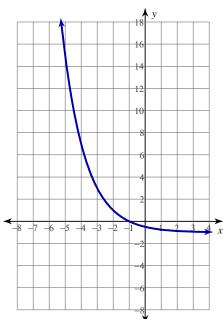
1) 
$$x = 4$$

$$2) \ \ x = -0.16; \ \ x = \frac{\log \frac{42.6}{9}}{\log 7}$$

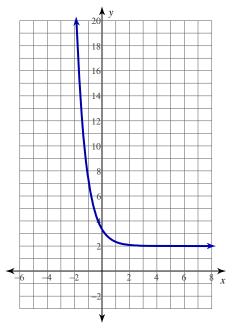
3) 
$$x = -1$$

4) 
$$x = -0.0314$$
;  $x = \frac{\frac{\log 7}{\log 11} - 1}{6}$ 

5)



6)



7)

